

REMARKS

Consideration of the present claims, in light of the attached claim clarifications and the Remarks, which follow, is respectfully requested.

Claims now before the Examiner are 1-45.

Support for the paragraph insertion at column 18 is found in US 5,693,727 which is incorporated by reference (column 18, line 27 in the application).

Throughout the Specification and Claims, in descriptive formulas of the metallocene catalyst component, M has been replaced by M'. While M (in the formulas for Group 15 bidentate or tridentate hafnium compound) and M' may be the same metal, they may also be different. These amendments should aid in clarity.

Support for the paragraphs inserted at column 14, between lines 42 and 43, is found in US 5,648,310 (column 8, line 46, carried over to column 9, line 9), which is incorporated by reference at column 14, line 34, in the present application.

Support for the amendment to claim 1, is found at the newly added verbiage at column 18, between lines 21 and 22 (slurry, dispersion, or suspension).

Support for the amendments to claims 6 and 7 to R⁸ to R¹² may be found at column 5, lines 39 - 57.

Amendments to claim 12 find support at column 6, line 49 carried over to column 7, line 20, and column 8, lines 19 – 44 (catalyst compound description) .

New claim 16 finds support at column 7, line 39 carried over to column 9, line 43 (catalyst compound description).

New claim 17 finds support in claim 11 at column 24, lines 45-46 (gas phase).

New claims 18 and 19 find support at column 15 lines 35-40 (ratio).

New claim 20 finds support at column 7, line 39 carried over to column 9, line 11 (catalyst compound description); and in claim 11 at column 24, lines 45-46 (gas phase).

New claim 21 finds support at column 12, line 7 (alumoxanes); and column 13 lines 25-33 (support).

New claims 22, 23, 24 and 25 find support at column 16, lines 25-27 (monomers).

New claims 26 and 27 find support in claims 4 and 5 at column 23, line 20 carried over to column 24, line 32 (catalyst formula).

New claims 28 and 29 find support in claims 4 and 5 as immediately above and claim 8, at column 24, line 37 (catalyst formula).

New claim 30 finds support at column 19, lines 15-36 (I_2 , I_{21} and I_2/I_{21}); and at column 19, line 51 carried over to column 20, line 6 (Mw/Mn metal content and density).

New claim 31 finds support in claims 4, 5, as above for claims 26 and 27, and in claim 8 at column 24, line 37 (for Group 15 containing catalyst); at column 12, line 7 (alumoxanes); at the newly added verbiage at column 18, between lines 21 and 22 (slurry, dispersion, or suspension); at column 16, lines 25-27 (monomers); at column 19, lines 15-36 (I_2 , I_{21} and I_2/I_{21}); at column 19, line 51 carried over to column 20, line 6 (Mw/Mn, metal content, and density); and at column 7, line 39 carried over to column 9, line 11 (metallocene catalyst compound description).

New claim 32 finds support at column 14, lines 32-34 (spray drying); and column 13 lines 25-28 (support).

New claim 33 finds support in claim 1, at column 23, lines 2-9 (Group 15 catalyst compound); at column 7, line 39 carried over to column 9, line 11 (metallocene catalyst compound description); column 12 lines 5-14 (activators); and at the newly added verbiage at column 18, between lines 21 and 22 (slurry, solution, emulsion, dispersion, or suspension).

New claim 34 finds support at column 14, lines 32-34 (spray drying); and column 13 lines 25-28 (support).

New claim 35 finds support in claims 4, 5, as above for claims 26 and 27, and in claim 8 at column 24, line 37 (for Group 15 containing catalyst).

New claim 36 finds support at column 16, lines 25-27 (monomers); at column 19, lines 15-36 (I_2 , I_{21} and I_2/I_{21}); and at column 19, line 51 carried over to column 20, line 6 (Mw/Mn, metal content, and density).

New claim 37 finds support at column 15 lines 35-40 (ratio); and at column 14, lines 51-58 (stearates).

New claim 38 finds support in claim 11 at column 24, lines 45-46 (gas phase).

New claim 39 finds support in claim 4 at column 23, line 20 carried over to column 24, line 13 (catalyst formula); column 11, lines 54-58 (activator); and at the newly added verbiage at column 18, between lines 21 and 22 (slurry, emulsion, solution, dispersion, or suspension).

New claim 40 finds support at column 12 lines 5-14 (activators); and column 13 lines 25-33 (support).

New claim 41 finds support at column 16, lines 25-27 (monomers).

New claim 42 finds support at column 7, line 39 carried over to column 9, line 11 (catalyst compound description).

New claim 43 finds support in claims 4, 5, as above for claims 26 and 27, and in claim 8 at column 24, line 37 (for Group 15 containing catalyst).

New claim 44 finds support at column 15 lines 35-40 (ratio); and at column 14, lines 51-58 (stearates).

New claim 45 finds support at column 14, lines 32-34 (spray drying); and in claim 11 at column 24, lines 45-46 (gas phase).

Concurrently with this paper, Applicants are filing an Information Disclosure Statement.

The claims are in condition for allowance.

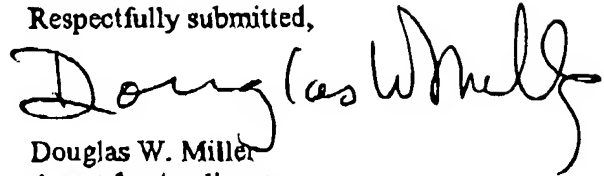
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Respectfully submitted,

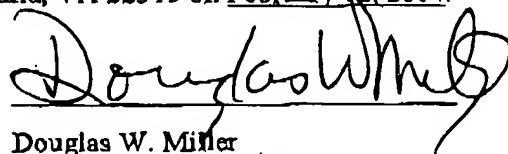


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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313 on February 12, 2004.



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